

KES

Vertical Durability of Upper Arm

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1. Scope of Application

This standard determines personal and commercial automobile that applies suspension upper arm.

2. Purpose

It is to evaluate and improve the vertical durability of upper control arm applied for automobile.

3. Evaluation Standard

- (1) There shall not be any cracks and cut on the upper arm and reinf after 250,000 times of vertical durability test.
- (2) There shall not be any cracks on the welded part on the upper arm assembly until finishing durability test.

4. Testing Order

- (1) Fix the automobile on the bed, and disassemble the upper arm.
- (2) Select the expected weak part of upper arm against vertical direction, and do the strain gage.
- (3) Set the upper arm done with the gage work, and fix a jig in order to load on the wheel center part.
- (4) Do a calibration in order to measure the load vs. strain linear drawing from the upper arm set up.
(X-Y Recorder, Amplitude, W/Bridge ETC)
- (5) By loading a weight as much as the one for suspension vertical durability on the wheel center part, measure the corresponding strain value on the upper arm part.